Koral Blue

IT
ISTRUZIONI

UK
INSTRUCTION

DE
ANLEITUNGEN

FR
INSTRUCTIONS

ES
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PT
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NL
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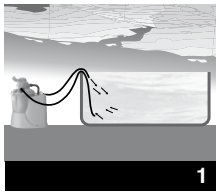
SICCE®
technology for water applications

FILTRO A SABBIA CON VALVOLA A 6 FUNZIONI - SAND FILTER WITH 6-FUNCTION VALVE SANDFILTER MIT 6-FUNKTIONEN-VENTIL - FILTRE À SABLE AVEC VANNE À 6 FONCTIONS FILTRO DE ARENA CON VÁLVULA DE 6 FUNCIONES - ZANDFILTER MET KLEP EN 6 FUNCTIES FILTRO DE AREIA COM VÁLVULA DE 6 FUNÇÕES - ПЕСОЧНЫЙ ФИЛЬТР С КЛАПАНОМ С 6 ФУНКЦИЯМИ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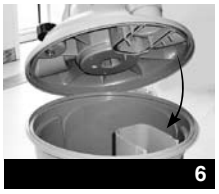
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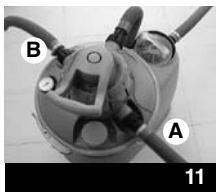

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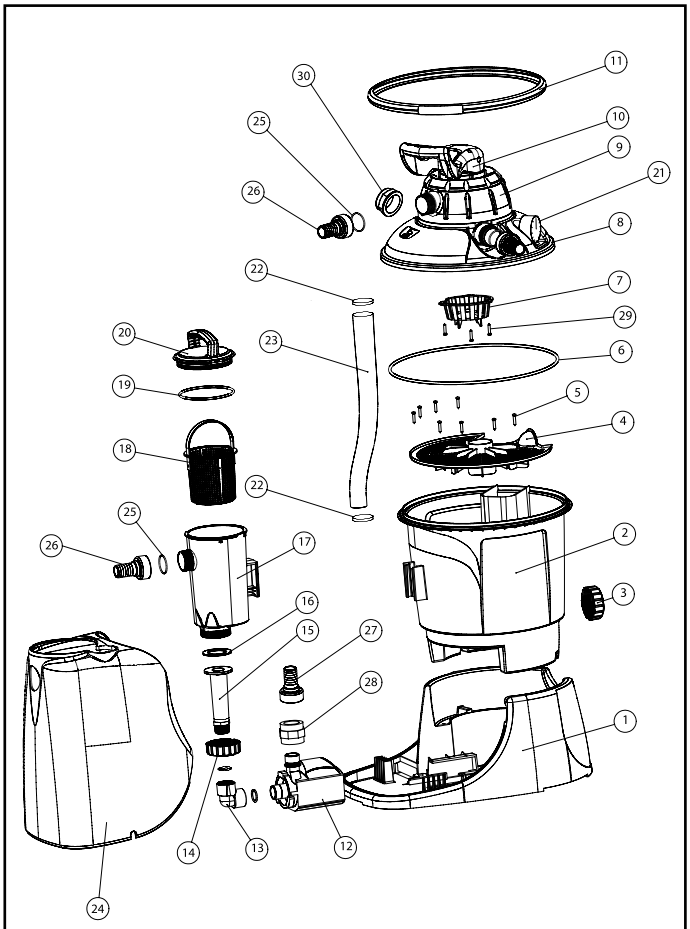
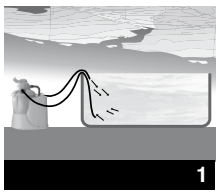


FILTRO CON VALVOLA A 7 FUNZIONI - FILTER WITH 7-FUNCTION VALVE FILTER MIT 7-FUNKTIONEN-VENTIL - FILTRE AVEC VANNE À 7 FONCTIONS FILTRO CON VÁLVULA DE 7 FUNCIONES - FILTER MET KLEP EN 7 FUNCTIES FILTER MET KLEP EN 7 FUNCTIES - ПЕСОЧНЫЙ ФИЛЬТР С КЛАПАНОМ С 7 ФУНКЦИЯМИ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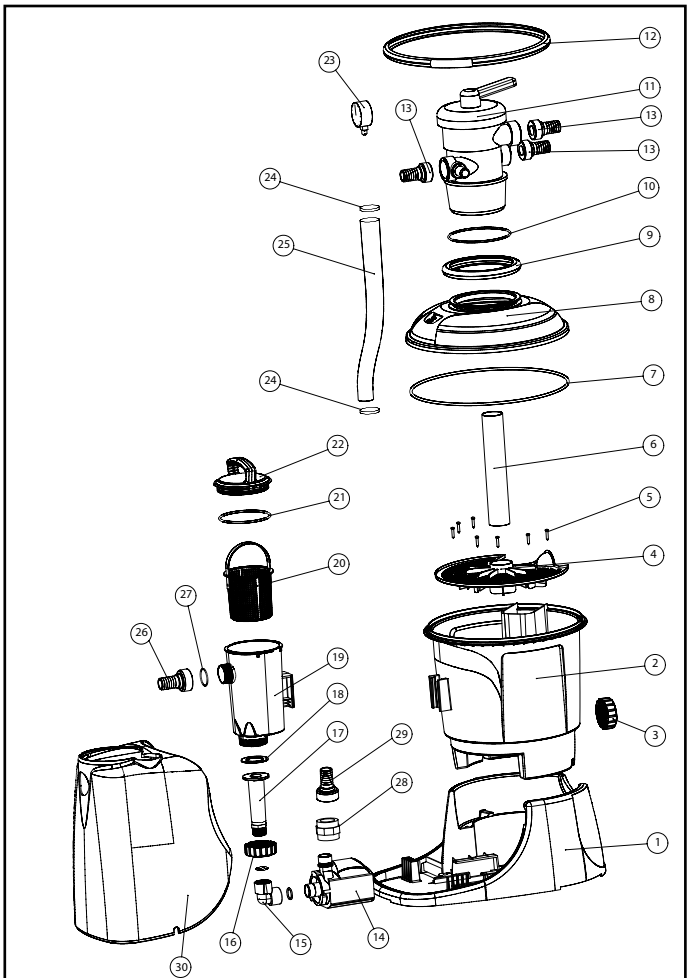

UK

SAND FILTER USER MANUAL

Koral Blue is an innovative sand filter, totally projected and realized by Sicce, that performs exceptional water filtration in your pool.
We recommend you to read this manual carefully before installing the filter and to preserve it for future checking regarding equipment operations.

FEATURES

Koral Blue is strong and stable because of its base that does not let it overturn.
Koral Blue is compact as its unions and the pump are protected and are all found in a special compartment.
Lack of style usually connected with this kind of filters has now been overcome; Koral Blue has an elegant style and it can be situated anywhere in the garden or in the house.
A six-function valve with an ergonomic handle is easy to handle when operating the product.
Access to the filter container and a sole opening ring facilitate/simplify its use and cleaning.
The standard threaded tubes located on the cover head let you apply unions of various sizes.
The pre-filter Sicce has projected allows easy activation of the pump as well as blocking the particles and leaves drawn into the basket which is easy to extract and clean.
The pre-filter transparent cover lets you easily see the debris inside.
Flexible tubes or metal clamps used on parts that are difficult to access to are not needed as there are rigid unions between the pump and the pre-filter (see motor compartment).
Access to the "technical" parts is carried out simply by unhooking the casing (see pump or pre-filter).
All the components are well fastened together and are realized in high-quality materials. The filtering part has easy maintenance guaranteed by the fact that all you have to do is open a metal ring to access to the filter container. A second filtration is guaranteed by a grid located on the bottom of the container in which you find the sand.

SAFETY RULES

Koral Blue complies with the current safety prescriptions regarding its category.
During electrical installation of the equipment always refer to the regulations in force in the area or country and to the following norms:

NF C 15-100
This norm provides that any electrical equipment placed at a distance of less than 3.5 m from the pool must be easily accessible, and must be fed by low tension (12 volts). Any equipment that is fed by higher power (therefore also Koral Blue) must be situated at the distance of at least 3.5 m from the edge of the pool.

NF EN 60-3352-41
This norm prohibits use of the pump in tanks or pools with people inside and requires the version having a 10 m cable for use outdoors.
Submersible pumps that are to be used in a pool with people must be of III class, with a tension that does not exceed 12 V.

CEI EN 60-335-2-55
This is a particular norm for equipment that cleans surfaces using domestic liquid or vapour cleaning agents and refers to safety of electrical domestic appliances and similar types.
The norm deals with electrical safety of equipment that cleans surfaces, for aquariums or domestic garden basins or similar types, including aerators, mud vacuum appliances, heaters, automatic food distributors. It is not applied to equipment that has professional use, electrical pumps, lighting devices for aquariums or ponds, underwater mobile heaters.

CEI 64-8
It is applied to electrical plants having a voltage rating that does not exceed 1000 V alternate current and 1500 V continuous current.

In addition :
Asking the manufacturer's permission is necessary (compulsory) to modify one or more elements of the filtering system.
Do not allow children and adults to lean or sit on the equipment.
Make sure the floor is dry (especially the power cable) before starting the electrical plant, there is the danger of being electrocuted.
Should Koral Blue fall into the water, do not go and retrieve it if you have not disconnected the plug or disconnected any other accessory.
Before carrying out manoeuvres, disconnect the plug from the electrical outlet.

The following is prohibited:
keeping the equipment switched on when the pool is in use;
operating the equipment without water;
putting your hands in the water when the pump is switched on.
The equipment must be fed by a differential switch (earth leakage circuit) and its current must not be lower than or equal to 30 mA.
The flexible power cable cannot be replaced; if it is damaged the equipment must be demolished.
The equipment is only for domestic use. Koral Blue must never be used for purposes that differ from those for which it has been projected.

TECHNICAL CHARACTERISTICS

Filter model	Pump with synchronous motor Power lead: 1) 5 m H05 RNF three pole Schuko 2) 1 0 m H07 RNF three pole Schuko	Watt 230V 50Hz	Watt 120V 60Hz	Outlet flow rate m3/h	Pool capacity m3	Filter size cm^2	Filter material (quartz sand, min. 0.4 x 0.8 mm) Kg
KORAL BLUE 25	**MULTI 4000**	**52**	**48**	**2,5**	**15**	**860**	**20**
	MULTI 4000 12V	**90**	**-**	**2,5**	**15**	**860**	**20**
	MULTI 5800	**90**	**142**	**3,5**	**20**	**860**	**20**
	MULTI 9000e	**120**	**140**	**4**	**25**	**860**	**20**
KORAL BLUE 50	**MULTI 9000e**	**120**	**140**	**4**	**25**	**960**	**40**
	MULTI 14000e	**220**	**210**	**6**	**40**	**960**	**40**
	MULTI 16000e	**230**	**220**	**5,5**	**35**	**960**	**40**

Max water temperature 35° C

6-FUNCTION SAND FILTER WITH VALVE

COMPONENTS (see exploded view)

1. Supporting base	16. Ring nut gasket
2. Filter container	17. Pre-filter container
3. Tap for closing the drain	18. Pre-filter basket
4. Grid for the bottom of the filter	19. OR pre-filter head
5. Fastening screws	20. Pre-filter cover
6. OR large filter cover	21. Manometer **(*)**
7. Water diffuser	22. Clamp for fastening the tube
8. Filter cover	23. Corrugated tube
9. Distributor head	24. Casing
10. Filter handle	25. Union gasket
11. Ring for closing the filter	26. Rubber union
12. Pump	27. Rubber union
13. Union elbow	28. Pipe coupling
14. Ring nut for fastening	29. Fastening screws
15. Union extension	30. Backwash closing plug

(*) Only for models with MULTI 9000e-14000e-16000e

OPERATING

Easy to find, Special Ø 0,4X0,8 mm quartz sand is needed to use Koral Blue. With this kind of sand Koral Blue has top performance in capturing all the solid impurities in the water.
The use of other kinds of sand or other products may jeopardize irrecoverably filter operations.
The water coming from the pool has a first filtering phase in the pre-filter, where the more voluminous impurities are stopped by the grid in the basket. The water is then conveyed towards the large container by a top-performance Sicce pump in which it finds the sand. The water, filtered by the sand, passes again through the valve and returns to the pool completely purified.
During the start phase (start up) of the filter you might hear a noise due to air inside the filter. After a few seconds, as soon as the pressure in the filter increases, and the water starts flowing inside it, the noise will stop.

INSTALLATION

Many may think that specialized personnel must install a pool filter. Actually thanks to technical developments and research on details that can bring on facilitations, this operation can be carried out by following the steps indicated below. The professional nature of the product has been in any case maintained. Before starting to operate Koral Blue, read the safety rules carefully.

Positioning: Identify a flat area that is easily accessible and at least 3.5 m far from the pool Make sure a plug is nearby for the equipment. (photo 1)
Check the voltage printed on the pump and make sure that it corresponds with the line voltage.
The equipment must be connected by means of a differential switch (earth leakage circuit) whose rated current is equal to (or less than) 30 mA. The pump must thus be connected with an electric network 220 - 240V / 50Hz
The system is equipped with an electric motor having a IPX8 insulation class and is therefore fit for outdoors

Assembly: Remove the cover on the pre-filter container and check if the grid placed on the bottom of the container is positioned correctly and fastened well to the bottom with the screws supplied with the equipment. (photo 2) Hook the container to the base to have the back plug on the bottom positioned in its seat on the supporting base. Insert the pre-filter container in its special seat on the side of the container.

Filling of the filter: Pour the sand (Ø 0.4 x 0.8 quartz) into the container and spread it evenly on the grid. (photo 3). The maximum quantity is indicated in the "TECHNICAL FEATURES" card (see previous page).
Carry out these operations very carefully and meticulously so that sand does not enter into the gasket seat. Even a few grains of sand can jeopardize tightness and filter operations and/or cause small water leakages.
If you see grains of sand in the OR gasket seat, clean the gasket seat carefully with a cotton flock or with an air or water jet. (photo 4)

Closing the filter: Position the OR large (photo 5) gasket in the special container seat and close the cover making sure it is well joined. The cover must be positioned so that the U-shaped gasket is located on its special container seat. (photo 6)

• Fasten the two pieces with the stainless steel closing ring and close the fastening lever. (photo 7).

• Caution: the ring must be opened only for filter maintenance and the pump must be disconnected from the electrical network.

• If you find it difficult closing the fastening lever check whether the OR gasket is well lodged. Any damage to the OR can cause water leakages from the cover.

• Connect the pump with the pre-filter with the specially supplied unions. (photo 8)

• Position the gaskets in the joints (as can be seen in the technical drawing), check that the gaskets are lodged well in their seats and tighten their unions. (photo 8)

• Connect the delivery tube of the pump on the union fastened onto the upper part of the filter head. (photo 9)

Connection with the pool: Once the filter has been assembled as described above all you have to do is connect the tubes coming from the pool with Koral Blue. The tube that comes from the pool and brings the water that must be filtered to the pre-filter entry has a union and special AISI 304 stainless steel clamps. (photo 10)
On the filter head you can see another two outlets that must be connected with the tubes (photo 11). One outlet brings the filtered and clean water to the pool (A) whereas the other is used to connect the filter with a sump pit for backwashing operations and for emptying the pool (B).

Once this operation has been carried out all you must do is fill the container with water up to the tube that connects the pre-filter inlet. After having done this, you will have a filter that can start pool water filtration cycles.

Tube connections for backwashing: Before connections, remove the backwash closing plug. We recommend you to connect straight away a tube (optional) for draining out the dirty water that comes from backwashing. We recommend you to direct the tube towards a sump pit for dirty water.

STARTING UP

START UP PREVENTATIVE MEASURES:

• Never operate the pump without water otherwise it will be irrecoverably damaged.

• Make sure the pump is full of water before starting it up.

• Before manoeuvring or changing the position of the valve handle, make sure the pump is not running and that the plug is disconnected from the electric network.

• Do not use the filter when there are people in the water.

PUMP PERFORMANCE CHECK:

• Check that unions and joints are tight and that clamps are well fastened.

• Set the valve lever at the "BACKWASH" (CONTROLAVAGGIO) position, activate the pump and then check that the water circulates regularly inside the system (the water in this case must come out from the backwash draining tube).

• Make the filter run this way till the water that comes out of the tube is clear.

• Stop the pump by disconnecting the power feed, move the valve lever to the "filtration" (filtrazione) position, activate the pump and check the pressure displayed on the manometer. (MAXIMUM OPERATING PRESSURE 0.5 BARS).

THE 6 KORAL BLUE FUNCTIONS

Push the selector valve lever down (PUSH) and turn it to the desired function. The motor must be off.

"Filtration" (filtrazione) function
When the lever is at the filtration position, the water enters from the inlet tube, passes through the sand, the grid and returns to the outlet tube thanks to the pipe inside the filter container.

"Closed" (chiuso) function
At this position the filter is at rest and this means that the water cannot go out from the filter as the delivery outlet is closed.
IMPORTANT: AT THIS POSITION THE PUMP MUST ABSOLUTELY NOT RUN. LACK OF WATER MAY CAUSE IRREPARABLE DAMAGE TO IT.

"Recirculation" (ricircolo) function
The water does not pass through the filtering material but is only set into motion by the pump. This function is for administering medical or other treatments into the pool as the unfiltered water is kept in continuous motion by the pump.

"Backwash" (controlavaggio) function
When the pressure exceeds the initial level of 0.5 bars, the filter must be cleaned with a backwash. To backwash means to invert the direction of water circulation in the filter and so the filter material is expelled and discharged.

BACKWASH function procedure:
Stop the pump by disconnecting the power feed supply; when it is off set the selector valve at the backwash position and start the pump till the water that comes out of the tube is clean.
Stop the pump again and set the selector valve at "rinse" or "filtration". Restart the pump for 20/30 seconds.

"Drain" (scarico) function
Draining the water from the pool. This function must be activated when you want to empty the water from the pool. With this function the water entry is put into communication with the backwash tube (connected to a sump pit) without passing through the filter.

"Winter" function
When winter is approaching the plant must be carefully prepared so it is protected from the rigid winter climate; the various operations listed below are indispensable and will ensure you have done everything to keep the components efficient and ready for the next coming summer;

• Make sure the pump is not running and that the plug is disconnected from the power feed;

• Drain the water out from the pool (see the "Drain" function above);

• Disconnect all the tubes that join the pool to the filter;

• Empty the water from the filter by unscrewing the tap at the back of the container on the lower part;

• Clean the basin carefully including all the circulation elements (conducts, pump pre-filter basket, etc.), being particularly careful of the OR gasket seats. These must be treated with vegetable oils or silicon grease during the period of time in which the product is at rest. Check that the sand has been perfectly removed and is not deposited;

• Rinse the pump and make it run separately from the filter with clean water to remove any limestone deposit inside. ("backwash" function);

• Reassemble all the filter parts (see "Installation" chapter);

• Restore the sand level and close; make sure everything is clean and the check conditions of the gasket; fasten everything adequately.
When everything is assembled, set the lever at the "WINTER" position.

IMPORTANT: the "winter" position of the valve opens all Koral Blue outlets. For this reason NEVER activate the pump when the valve is set at the "winter" position.

Keep the filter in a dry place where it cannot freeze.

PROBLEM	REMEDY
PRESSURE TOO HIGH OR WATER FLOW LACKING	1) Make sure the skimmer and/or pre-filter are not clogged. 2) Check that nothing is squashing or obstructing the inlet and outlet tubes. 3) Check for leaks along the tubing. Control all the seals and o-rings. 4) Stop the filter and run a backwash.
POOL WATER REQUIRES FILTERING TOO OFTEN	1) Control the pool for algae and, if necessary, add a disinfectant. 2) Check the surface of the sand has not solidified or clogged. If this is the case scoop away 2 or 3 cm of sand.
THE WATER IN THE POOL STAYS FOGGY	1) Control the pH and if necessary add a disinfectant. 2) Make sure the filter flow rate is correct. 3) Make sure the valve lever is set to FILTER. 4) Make sure the power is properly connected and that the mains power has the same voltage as the pump.

CAUTION: The dirt that is blocked during filter operations may cause a pressure increase. If the pressure level indicated in the pressure gauge exceeds 0.5 bars, you must clean the filter with a "backwash" (as described in the following "backwash" chapter).

7-FUNCTION SAND FILTER WITH VALVE

COMPONENTS (See exploded view)

1. Supporting base	16. Ring nut for fastening
2. Filter container	17. Union extension
3.Tap for closing the drain	18. Ring nut gasket
4. Grid for the bottom of the filter	19. Pre-filter container
5. Fastening screws	20. Pre-filter basket
6.Central tube	21. OR pre-filter head
7. OR large filter cover	22. Pre-filter cover
8. Filter cover	23. Manometer **(*)**
9. Valve fastening ring	24. Clamp for fastening the tube
10. OR valve	25. Corrugated tube
11. 7 function valve	26. Rubber union
12. Ring for closing the filter	27. Union gasket
13. Rubber union	28. Pipe coupling
14.Pump	29. Rubber union
15. Union elbow	30. Casing

(*) Only for models with MULTI 9000e-14000e-16000e

ASSEMBLY

Before starting to operate Koral Blue, read the safety rules carefully.

Positioning: Identify a flat area that is easily accessible and at least 3.5 m far from the pool Make sure a plug is nearby for the equipment. (photo 1)
Check the voltage printed on the pump and make sure that it corresponds with the line voltage.
The equipment must be connected by means of a differential switch (earth leakage circuit) whose rated current is equal to (or less than) 30 mA. The pump must thus be connected with an electric network.
The system is equipped with an electric motor having a IPX8 insulation class and is therefore fit for outdoors.

Assembly: Remove the cover on the pre-filter container and check if the grid placed on the bottom of the container is positioned correctly and fastened well to the bottom with the screws supplied with the equipment. (photo 2) Hook the container to the base in order to have the back cover on the bottom positioned in its seat on the supporting base. Insert the pre-filter container in its special seat on the side of the container.

Filling of the filter: Pour the sand (Ø 0.4 x 0.8 quartz) into the container and spread it evenly on the grid. (photo 3). The maximum quantity is indicated in the "TECHNICAL FEATURES" card (see previous page).

Carry out these operations very carefully and meticulously so that sand does not enter into the gasket seat. Even a few grains of sand can jeopardize tightness and filter operations and/or cause small water leakages.
If you see grains of sand in the OR gasket seat, clean the gasket seat carefully with a cotton flock or with an air or water jet. (photo 4)

Closing the filter: Position the central tube that is supplied in the special seat in the filter head and make sure it is well inserted (photo 5). Position the OR large gasket in the special container seat and close the cover making sure it is well joined. (photo 6). Make sure the word "PUMP" on the 7-function valve head is aligned with the pre-filter.

• Fasten the two pieces with the stainless steel closing ring and close the fastening lever. (photo 7)

• Caution: the ring must be opened only for filter maintenance and the pump must be disconnected from the electrical network.

• If you find it difficult closing the fastening lever check whether the OR gasket is well lodged. Any damage to the OR can cause water leakages from the cover.

• Connect the pump with the pre-filter with the specially supplied unions. (photo 8)

• Position the gaskets in the joints (as can be seen in the technical drawing), check that the gaskets are lodged well in their seats and tighten their unions. (photo 8)

• Connect the delivery tube of the pump on the union fastened onto the upper part of the filter head. (photo 9)

For all other operations regarding installation, starting up, and Koral Blue functions, refer to the preceding chapters 3-4-5 of the "6-function sand filter with valve" part.

ADDITIONAL VALVE ADJUSTMENT FUNCTION RINSE – "RINSE" POSITION

After a backwash, rinsing must be done to allow the water that still has residual impurities to flow towards the drain and not towards the pool.

• Stop the pump by disconnecting it from the electricity circuit;

• Set the valve lever at the "RINSE" position;

• Activate the pump again for about one minute;

• Stop the pump by disconnecting it from the electric circuit and reset the valve lever at the normal "FILTER" position.